

Switching Diode

1SS400



•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V _{RM}	90	V
Reverse voltage (DC)	V _R	80	V
Forward voltage(repetitive peak)	I _{FM}	225	mA
Average rectified forward current	lo	100	mA
Surge current(t=1s)	I _{surge}	500	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	1.2	V	I _F =100mA
Reverse current	I _R	-	-	0.1	μA	V _R =80V
Capacitance between terminals	Ct	-	-	3	pF	V _R =0.5V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	V_R =6V , IF=10mA , RL=100 Ω



	Notes					
1)	The information contained herein is subject to change without notice.					
2)	Before you use our Products, please contact our sales representative and verify the latest specifica- tions :					
3)	Although ROHM is continuously working to improve product reliability and quality, semicon- ductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.					
4)	Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.					
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7)	The Products specified in this document are not designed to be radiation tolerant.					
8)	For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.					
9)	Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.					
10)	ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.					
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